

PATENT APPLICATION

Invention Title:

SYSTEM AND METHOD FOR PERFORMING CLIENT-CENTRIC LOAD
BALANCING OF MULTIPLE GLOBALLY-DISPERSED SERVERS

Inventors:

BAHL, Pradeep	US	Redmond	Washington
INVENTOR'S NAME	CITIZENSHIP	CITY OF RESIDENCE	STATE or FOREIGN COUNTRY

SUN, Feng	PR China	Issaquah	Washington
INVENTOR'S NAME	CITIZENSHIP	CITY OF RESIDENCE	STATE or FOREIGN COUNTRY

ABOBA, Bernard D.	US	Bellevue	Washington
INVENTOR'S NAME	CITIZENSHIP	CITY OF RESIDENCE	STATE or FOREIGN COUNTRY

MILLER, Arnold S.	US	Alexandria	Virginia
INVENTOR'S NAME	CITIZENSHIP	CITY OF RESIDENCE	STATE or FOREIGN COUNTRY

INVENTOR'S NAME	CITIZENSHIP	CITY OF RESIDENCE	STATE or FOREIGN COUNTRY
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INVENTOR'S NAME	CITIZENSHIP	CITY OF RESIDENCE	STATE or FOREIGN COUNTRY
-----------------	-------------	-------------------	--------------------------

Be it known that the inventors listed above have invented a certain new and useful
invention with the title shown above of which the following is a specification.

COMBINED DECLARATION AND POWER OF ATTORNEY

As below named inventor, I hereby declare that

This declaration is of the following type:

- ☒ original ☐ design ☐ supplemental
☐ national stage of PCT
☐ divisional ☐ continuation ☐ continuation-in-part

My residence, post office address, and citizenship are as stated below next to my name. I believe I am the original, first, and sole inventor (*if only one name is listed below*) or an original, first, and joint inventor (*if plural names are listed below*) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**"SYSTEM AND METHOD FOR PERFORMING CLIENT-CENTRIC
LOAD BALANCING OF MULTIPLE GLOBALLY-DISPERSED
SERVERS"**

the specification of which:

- ☒ is attached hereto.
☐ was filed on _____ as Serial No. _____ and was amended on _____. (*if applicable*).
☐ was filed by Express Mail No. _____ as Serial No. not known yet, and was amended on _____ (*if applicable*).
☐ was described and claimed in PCT International Application No. _____ filed on _____ and as amended under PCT Article 19 on _____ (*if any*).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

COUNTRY	APPLICATION	DATE OF FILING (day,month,year)	PRIORITY CLAIMED UNDER 35 USC 119		
				YES	NO
				YES	NO
				YES	NO
				YES	NO

In re Application of Bahl et al.
Serial Number not yet assigned

I hereby claim the benefit pursuant to Title 35, United States Code, § 119(e) of the following United States provisional application(s):

PRIOR U.S. PROVISIONAL APPLICATIONS CLAIMING THE BENEFIT UNDER 35 USC 119(e)	
APPLICATION NO.	DATE OF FILING

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 USC 120					
U.S. APPLICATIONS			Status (check one)		
U.S. APPLICATIONS	U.S. FILING DATE		PATENTED	PENDING	ABANDONED
1.					
2.					
3.					
PCT APPLICATIONS DESIGNATING THE U.S.			Status (check one)		
PCT APPLICATION NO.	PCT FILING DATE	U.S. SERIAL NOS. ASSIGNED (if any)	PATENTED	PENDING	ABANDONED
4.					
5.					
6.					

DETAILS OF FOREIGN APPLICATIONS FROM WHICH PRIORITY CLAIMED UNDER 35 USC 119 FOR ABOVE LISTED U.S./PCT APPLICATIONS				
ABOVE APPLN. NO.	COUNTRY	APPLICATION NO.	DATE OF FILING (day,month,yr)	DATE OF ISSUE (day,month,yr)
1.				
2.				
3.				
4.				

In re Application of Bahl et al
Serial Number not yet assigned

As a named inventor, I hereby appoint the following attorneys to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Berton Scott Sheppard, Reg. 20922
James B. Muskal, Reg. 22797
Dennis R. Schlemmer, Reg. 24703
Gordon R. Coons, Reg. 20821
John E. Rosenquist, Reg. 26356
John W. Kozak, Reg. 25117
Charles S. Oslakovic, Reg. 27583
Mark E. Phelps, Reg. 28461
H. Michael Hartmann, Reg. 28423
Bruce M. Gagala, Reg. 28844
Charles H. Mottier, Reg. 30874
John Kilyk, Jr., Reg. 30763
Robert F. Green, Reg. 27555
John B. Conklin, Reg. 30369
James D. Zalewa, Reg. 27848
John M. Belz, Reg. 30359
Brett A. Hesterberg, Reg. 31837
Jeffrey A. Wyand, Reg. 29458

Paul J. Korniczky, Reg. 32849
Pamela J. Ruschau, Reg. 34242
Steven P. Petersen, Reg. 32927
John M. Augustyn, Reg. 33589
Christopher T. Griffith, Reg. 33392
Wesley O. Mueller, Reg. 33976
Jeremy M. Jay, Reg. 33587
Jeffrey B. Burgan, Reg. 35463
Eley O. Thompson, Reg. 36035
Mark Joy, Reg. 35562
Allen E. Hoover, Reg. 37354
David M. Airan, Reg. 38811
Xavier Pillai, Reg. 39799
Y. Kurt Chang, Reg. 41397
Gregory C. Bays, Reg. 40505
Carol Larcher, Reg. 35243
Steven H. Sklar, Reg. 42154
M. Daniel Hefner, Reg. 41826
Daniel D. Crouse, Reg. 32022

Thomas A. Belush, Reg. 37090
Kenneth P. Spina, Reg. 43927
Song Zhu, Reg. 44420
Andrew J. Heinisch, Reg. 43666
Jeffery J. Makeever, Reg. 37390
Salim A. Hasan, Reg. 38175
Richard A. Wulff, Reg. 42238
Jamison E. Lynch, Reg. 41168
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Robert M. Gould, Reg. 43642
Len Smith, Reg. 43139
Kevin L. Wingate, Reg. 38662
David J. Schodin, Reg. 41294
Paul L. Ahern, Reg. 17020
Theodore W. Anderson, Reg. 17035
Noel I. Smith, Reg. 18698
Phillip M. Pippenger, Reg. 46055
Katie E. Sako, Reg. 32628

I further direct that correspondence concerning this application be directed to Customer Number 23460.



23460

PATENT TRADEMARK OFFICE

I hereby declare that all statements made herein of my own knowledge are true, that all statements made on information and belief are believed to be true, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: Pradeep Bahl

Inventor's signature

Date

10/27/00

Country of Citizenship: US

Residence: 21502 NE 84th Street, Redmond, Washington 98053

Post Office Address: Same as above

Full name of second joint inventor: Feng Sun

Inventor's signature

Date

10/27/2000

Country of Citizenship: PR China

Residence: 25542 SE 41st Court, Issaquah, Washington 98029

Post Office Address: Same as above

Inventor's signature

Date _____

$$11 \overline{) 1400}$$

Residence: 15600 NE 8th Street Suite B1-606, Bellevue, Washington 98008-3917

Full name of **fourth** joint inventor: Arnold S. Miller

Inventor's signature

Date _____

Residence: 517 1/2 South Royal Street, Alexandria, Virginia 22314

Post Office Address: Same as above

Country	Year	Population (millions)	Urban population (millions)	Urban population (%)	Population density (per sq km)	Urban population density (per sq km)
Algeria	1980	11.2	7.1	63.4	112	1,120
Algeria	1985	11.2	7.1	63.4	112	1,120
Algeria	1990	11.2	7.1	63.4	112	1,120
Algeria	1995	11.2	7.1	63.4	112	1,120
Algeria	2000	11.2	7.1	63.4	112	1,120
Algeria	2005	11.2	7.1	63.4	112	1,120
Algeria	2010	11.2	7.1	63.4	112	1,120
Algeria	2015	11.2	7.1	63.4	112	1,120
Algeria	2020	11.2	7.1	63.4	112	1,120
Algeria	2025	11.2	7.1	63.4	112	1,120
Algeria	2030	11.2	7.1	63.4	112	1,120
Algeria	2035	11.2	7.1	63.4	112	1,120
Algeria	2040	11.2	7.1	63.4	112	1,120
Algeria	2045	11.2	7.1	63.4	112	1,120
Algeria	2050	11.2	7.1	63.4	112	1,120
Algeria	2055	11.2	7.1	63.4	112	1,120
Algeria	2060	11.2	7.1	63.4	112	1,120
Algeria	2065	11.2	7.1	63.4	112	1,120
Algeria	2070	11.2	7.1	63.4	112	1,120
Algeria	2075	11.2	7.1	63.4	112	1,120
Algeria	2080	11.2	7.1	63.4	112	1,120
Algeria	2085	11.2	7.1	63.4	112	1,120
Algeria	2090	11.2	7.1	63.4	112	1,120
Algeria	2095	11.2	7.1	63.4	112	1,120
Algeria	2100	11.2	7.1	63.4	112	1,120
Algeria	2105	11.2	7.1	63.4	112	1,120
Algeria	2110	11.2	7.1	63.4	112	1,120
Algeria	2115	11.2	7.1	63.4	112	1,120
Algeria	2120	11.2	7.1	63.4	112	1,120
Algeria	2125	11.2	7.1	63.4	112	1,120
Algeria	2130	11.2	7.1	63.4	112	1,120
Algeria	2135	11.2	7.1	63.4	112	1,120
Algeria	2140	11.2	7.1	63.4	112	1,120
Algeria	2145	11.2	7.1	63.4	112	1,120
Algeria	2150	11.2	7.1	63.4	112	1,120
Algeria	2155	11.2	7.1	63.4	112	1,120
Algeria	2160	11.2	7.1	63.4	112	1,120
Algeria	2165	11.2	7.1	63.4	112	1,120
Algeria	2170	11.2	7.1	63.4	112	1,120
Algeria	2175	11.2	7.1	63.4	112	1,120
Algeria	2180	11.2	7.1	63.4	112	1,120
Algeria	2185	11.2	7.1	63.4	112	1,120
Algeria	2190	11.2	7.1	63.4	112	1,120
Algeria	2195	11.2	7.1	63.4	112	1,120
Algeria	2200	11.2	7.1	63.4	112	1,120
Algeria	2205	11.2	7.1	63.4	112	1,120
Algeria	2210	11.2	7.1	63.4	112	1,120
Algeria	2215	11.2	7.1	63.4	112	1,120
Algeria	2220	11.2	7.1	63.4	112	1,120
Algeria	2225	11.2	7.1	63.4	112	1,120
Algeria	2230	11.2	7.1	63.4	112	1,120
Algeria	2235	11.2	7.1	63.4	112	1,120
Algeria	2240	11.2	7.1	63.4	112	1,120
Algeria	2245	11.2</				

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This declaration is of the following type:

- ☒ original ☐ design ☐ supplemental
☐ national stage of PCT
☐ divisional ☐ continuation ☐ continuation-in-part

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COUNTRY	APPLICATION	DATE OF FILING (day,month,year)	PRIORITY CLAIMED UNDER 35 USC 119			
				YES		NO
				YES		NO
				YES		NO
				YES		NO

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PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 USC 120					
U.S. APPLICATIONS			Status (check one)		
U.S. APPLICATIONS	U.S. FILING DATE		PATENTED	PENDING	ABANDONED
1.					
2.					
3.					
PCT APPLICATIONS DESIGNATING THE U.S.			Status (check one)		
PCT APPLICATION NO.	PCT FILING DATE	U.S. SERIAL NOS. ASSIGNED (if any)	PATENTED	PENDING	ABANDONED
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5.					
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DETAILS OF FOREIGN APPLICATIONS FROM WHICH PRIORITY CLAIMED UNDER 35 USC 119 FOR ABOVE LISTED U.S./PCT APPLICATIONS.				
ABOVE APPLN. NO.	COUNTRY	APPLICATION NO.	DATE OF FILING (day,month,yr)	DATE OF ISSUE (day,month,yr)
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In re Application of Bahl et al
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Rattan Nath, Reg. 43827
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Paul L. Ahern, Reg. 17020
Theodore W. Anderson, Reg. 17035
Noel I. Smith, Reg. 18698
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Katie E. Sako, Reg. 32628

I further direct that correspondence concerning this application be directed to Customer Number 23460.



23460

PATENT TRADEMARK OFFICE

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Full name of sole or first inventor: Pradeep Bahl

Inventor's signature _____

Date _____

Country of Citizenship: US

Residence: 21502 NE 84th Street, Redmond, Washington 98053

Post Office Address: Same as above

Full name of second joint inventor: Feng Sun

Inventor's signature _____

Date _____

Country of Citizenship: PR China

Residence: 25542 SE 41st Court, Issaquah, Washington 98029

Post Office Address: Same as above

Inventor's signature _____

Country of Citizenship: US

Post Office Address: Same as above

Inventor's signature [Signature]

Country of Citizenship: US

Post Office Address: Same as above

[illegible]

U.S. Department of Commerce
Patent and Trademark Office
PATENT

Submission Typ

Conveyance Typ

☒ Assignment
☐ License
☐ Merger
☐ Security Agreement
☐ Change of Name
☐ Other:

Execution Date(s)

- October 27, 2000
October 27, 2000
November 14, 2000
October 25, 2000

Receiving Party

Washington
State/Country

98052
Zip Code

Correspondent Name and Address

Telephone: (312) 616-5600
Facsimile: (312) 616-5700
Attorney Docket No. 205726

Application Number(s) or Patent Number(s)

Patent Application Numbers

Patent Numbers

04 FC ~~581~~

~~40.00 GP~~

Month Day Year
10/27/00

Enter PCT application number *only* if a U.S. Application Number has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

Enter the total number of properties involved: 1

Fee Amount for Properties Listed (37 CFR 3.41): \$40.00

☒ Enclosed is a check in the amount of \$1186.00, \$40.00 of which is for the Assignment.

☐ Charge Deposit Account No. 12-1216

Authorization to Charge Additional Fees to Deposit Account No. 12-1216: ☒ Yes ☐ No

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Signature

November 16, 2000

Date _____

j-c912 U.S. PTO

09/14406

11/16/00

Leydig, Voit & Mayer, Ltd.
Attorneys at Law
Two Prudential Plaza
Suite 4900
180 North Stetson
Chicago, Illinois 60601-6780

ASSIGNMENT

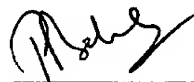
WHEREAS, we Pradeep Bahl of 21502 NE 84th Street, Redmond, Washington 98053, Feng Sun of 25542 SE 41st Court, Issaquah, Washington 98053, Bernard D. Aboba of 15600 NE 8th Street Suite B1-606, Bellevue, Washington 98008-3917 and Arnold S. Miller of 517 ½ South Royal Street, Alexandria, Virginia 22314 (hereinafter referred to as ASSIGNORS), are the joint inventors of an invention entitled "SYSTEM AND METHOD FOR PERFORMING CLIENT-CENTRIC LOAD BALANCING OF MULTIPLE GLOBALLY-DISPERSED SERVERS" as described and claimed in the specification forming part of an application for United States letters patent filed herewith.

WHEREAS, Microsoft Corporation (hereinafter referred to as ASSIGNEE), a corporation of the State of Washington having a place of business at One Microsoft Way, Redmond, Washington 98052, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their

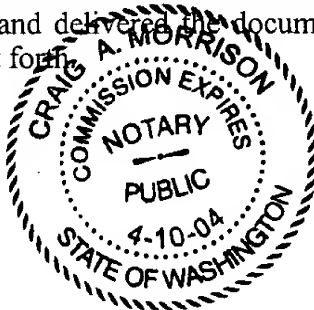
successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

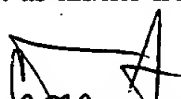
Date 10/27/00


Pradeep Bahl

STATE OF WA)
COUNTY OF King) SS:

On this 27th day of October, 2000, before me, a Notary Public in and for said county, appeared Pradeep Bahl, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.




Notary Public

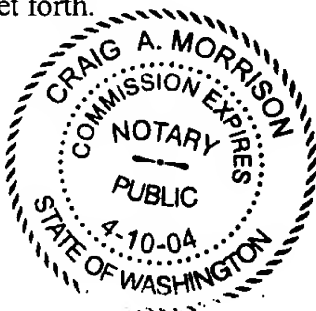
My Commission Expires: 4/10/04

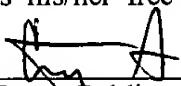
Date 10/27/2000


Feng Sun

STATE OF WA)
COUNTY OF King) SS:

On this 27th day of October, 2000, before me, a Notary Public in and for said county, appeared Feng Sun, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.




Notary Public

My Commission Expires: 4/10/04

Date

11/14/00

Bernard D. Aboba
Bernard D. Aboba

STATE OF

WA

)

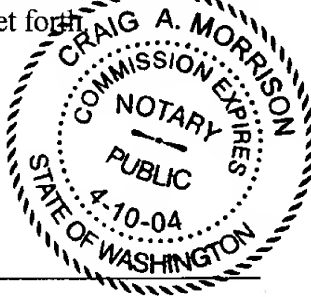
SS:

COUNTY OF

King

)

On this 14th day of November, 2000, before me, a Notary Public in and for said county, appeared Bernard D. Aboba, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.



[Signature]
Notary Public

My Commission Expires:

4/10/04

Date

STATE OF

)

SS:

COUNTY OF

)

On this _____ day of _____, _____, before me, a Notary Public in and for said county, appeared Arnold S. Miller, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.

Notary Public

My Commission Expires: _____

Leydig, Voit & Mayer, Ltd.
Attorneys at Law
Two Prudential Plaza
Suite 4900
180 North Stetson
Chicago, Illinois 60601-6780

ASSIGNMENT

WHEREAS, we Pradeep Bahl of 21502 NE 84th Street, Redmond, Washington 98053, Feng Sun of 25542 SE 41st Court, Issaquah, Washington 98053, Bernard D. Aboba of 15600 NE 8th Street Suite B1-606, Bellevue, Washington 98008-3917 and Arnold S. Miller of 517 ½ South Royal Street, Alexandria, Virginia 22314 (hereinafter referred to as ASSIGNORS), are the joint inventors of an invention entitled "SYSTEM AND METHOD FOR PERFORMING CLIENT-CENTRIC LOAD BALANCING OF MULTIPLE GLOBALLY-DISPERSED SERVERS" as described and claimed in the specification forming part of an application for United States letters patent filed herewith.

WHEREAS, Microsoft Corporation (hereinafter referred to as ASSIGNEE), a corporation of the State of Washington having a place of business at One Microsoft Way, Redmond, Washington 98052, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their

In re Application of Bahl et al.
Serial No. not yet assigned

successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

Date _____

Pradeep Bahl

STATE OF _____)
_____) SS:
COUNTY OF _____)

On this _____ day of _____, _____, before me, a Notary Public in and for said county, appeared Pradeep Bahl, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.

Notary Public

My Commission Expires: _____

Date _____

Feng Sun

STATE OF _____)
_____) SS:
COUNTY OF _____)

On this _____ day of _____, _____, before me, a Notary Public in and for said county, appeared Feng Sun, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.

Notary Public

My Commission Expires: _____

Date _____

Bernard D. Aboba

STATE OF _____)
COUNTY OF _____) SS:

On this _____ day of _____, before me, a Notary Public in and for said county, appeared Bernard D. Aboba, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.

Notary Public

My Commission Expires: _____

Date Oct. 25, 2000

Arnold S. Miller
Arnold S. Miller

STATE OF Virginia)
City) SS:
COUNTY OF Alexandria

On this 25 day of October, 2000, before me, a Notary Public in and for said county, appeared Arnold S. Miller, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.

Jan M. Terley
Notary Public

My Commission Expires: 7-31-01